

8th International RILEM Symposium on Self-Compacting Concrete
6th North American Conference on Design and Use of Self-Consolidating Concrete
Program

Sunday, May 15, 2016

Note: Speakers in Bold

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| 10:00 – 12:00 | RILEM Technical Committee on 3D Printing (open) POTOMAC V/VI |
| 14:00 - 17:00 | RILEM Technical Committee on Measuring Rheological Properties of Cement-Based Materials (open) POTOMAC V/VI |
| 17:00 - 19:00 | Registration Desk Open REGENCY BALLROOM FOYER |
| 18:00 – 19:00 | Reception in Exhibit Area REGENCY BALLROOM FOYER |

Monday, May 16, 2016

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| 7:00 - 17:00 | Registration Desk Open REGENCY BALLROOM FOYER | | |
| 7:00 – 8:00 | Continental Breakfast in Exhibit Area REGENCY BALLROOM FOYER | | |
| 8:00 – 9:30 | Plenary Session 1 REGENCY BALLROOM Chair: Kamal H. Khayat Co-Chair: Matthew Wood Opening Remarks Ken P. Chong - Infrastructure Materials: Mechanics and Sustainability Chris Drew - The Role of the Concrete Industry in Reducing the Environmental Impact of the Built Environment Olafur H. Wallevik - From Low Binder Self Consolidating Concrete (Eco-SCC) to Vibration Free Stiff Concrete (VFC) | | |
| 9:30 – 10:00 | Break in Exhibit Area REGENCY BALLROOM FOYER | | |
| 10:00 – 12:00 | Session A-1: Mix Design 1 Potomac I/II Chair: Joseph Daczko Co-Chair: Tor Arne Martius-Hammer #67 - Micro-Proportioning of SCC with Crushed Aggregate: Rheology of Filler Modified Cement Pastes, Rolands Cepuritis, Stefan Jacobsen, Sverre Smeplass, Ernst Mørtzell, Børge J. Wigum #187 - Mixture Compositions and Fresh Properties of Self-Compacting Concrete: Analysis of 25 Years of Research, Pieter Desnerck, Bart Craeye, Veerle Boel, Petra Van Itterbeek # 220 – SCC Cement Pastes Designed by a Pseudo-Simplex Method, Givanildo Azeredo, Guilherme Leite, Aline Nóbrega De Azeredo #193 - A Rational Method for the Design of Self-Compacting Concrete Mixes, Wajde Alyhya, Mohammed Abo Dhaheer, Muna Al-Rubaye, Bhushan Karihaloo, Siva Kulasegaram | Session B-1: Rheology and Workability 1 Potomac III/IV Chair: Jon E. Wallevik Co-Chair: Fabrice Toussaint #4 - Normal and Tangential Interaction between Discrete Particles Immersed in Viscoelastic Fluids: Experimental Investigation as Basis for Discrete Element Modelling of Fresh Concrete, Venkatesh Naidu Nerella, Filippo Galvani, Liberato Ferrara, Viktor Mechtcherine #45 - SCC Flow Curves from Vane Geometry Rheometer, Christophe Lanos, Patrice Estellé #119 - A Correction Procedure to Characterize the Bottom Effect of a Rotational Cylinder during Tribological Measurements of the Lubrication Layer of Highly Workable Concrete, Jan Vosahlik, Dimitri Feys, Kyle Riding #226 - Rheological Behavior of Cement Pastes under Large Amplitude Oscillatory Shear, Théau Conte, Mohend Chaouche #22 - Effect of Hydration on the | Session C-1: Case Studies 1 Potomac V/VI Chair: Claude Bédard Co-Chair: George Morcouc #35 - Self-Consolidating Concrete Case Study: The Ryman Auditorium, Nashville, TN, Amanda Schweighardt #128 - Beyond the Floor Cycle: Integral Casting of Walls and Floor Slabs Through Double-Shutter Formwork and Self-Compacting Concrete, Domenico Cecini, Simon A. Austin, Alessandro Palmeri #145 - Rheological Behavior Study of Semi Self-Compacting Concrete during Pile-Driving Operations Using Hollow Auger, Mariam Mohaman Dairou, Yannick Vanhove, Hassina Kada, Chafika Djelal, Philippe Gotteland #201 - SCC Developed for Tunnel End Plugs in a Permanent Nuclear Waste Repository, Tapio Vehmas, Markku Leivo, Erika Holt, Petri Koho, Jari Dunder #127 - The Use of Self-Consolidating Concrete in the Construction Precast |

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| | <p>#163 - Influence of Shape, Size, and Solid Concentration of Particles on Rheological Properties of Self-Consolidating Mortar, Daddy Kabagire, <i>Paco Diederich, Ammar Yahia, Mohamed Chekired</i></p> <p>#218 - Design and Properties of Low-Binder Self-Compacting Concrete, Zuo Wenqiang, <i>Xu Wen, Tian Qian, Zhang Qian-Qian, Wang Peng-Gang, Li Wei</i></p> | <p>Rheological Properties of SCC Cement Paste, Willy Mbasha, <i>Rainer Haldenwang, Irina Masalova</i></p> <p>#5 - Testing of Cementitious Materials Using a Dynamic MEMS Micro Rheometer, Yong-Sik Kim, <i>Nicholas G. Dagalakis, Chiara Ferraris, Nicos S. Martys</i></p> | <p>Beams for the Border Highway West Extension Loop 375 in El Paso Texas, Caroline Talbot, <i>Martin Aldarette, Adam Mainka</i></p> <p>#202 - VDOT's SCC Applications and Lessons Learned, <i>Gail M. Moruza</i>, Celik Ozyildirim (Invited)</p> |
| 12:00 – 13:30 | Lunch REGENCY BALLROOM | | |
| 13:30 – 15:10 | <p>Session A-2: Mix Design 2 Potomac I/II Chair: Caijun Shi Co-Chair: Hakim Abdelgader</p> <p>#50 - Development of Air-Enhanced Self-Compacting Concrete, <i>Masahiro Ouchi</i>, Anuwat Attachaiyawuth (Invited)</p> <p>#75 - Robustness of Low-Binder SCC (Eco-SCC), Lean SCC, and Binder-Rich SCC, Florian V. Mueller, <i>Olafur H. Wallevik, Kamal H. Khayat</i></p> <p>#82 - Robustness of Powder-Type SCC with Fly Ash and Limestone Crushed Aggregates, Daniel Gálvez-Moreno, <i>Alejandro Durán-Herrera, Rodrigo Gonzales-Lopez, Kamal H. Khayat</i></p> <p>#222 - Influence of Recycled Concrete Coarse Aggregate on Self-Compacting Concrete Robustness at Short and Long Times, Iris González-Taboada, <i>Belén González-Fontboa, Nicolas Roussel, Fernando Martínez-Abella</i> (Invited)</p> <p>#65 - The Performance of Self-consolidating Concrete Incorporating Foamed Lightweight Aggregate, Chao-Lung Hwang, <i>Vu-An Tran</i></p> | <p>Session B-2: Rheology and Workability 2 Potomac III/IV Chair: Chiara Ferraris Co-Chair: Christophe Lanos</p> <p>#232 - Distinguishing Flocculation and Hydration Effects on the Thixotropy of Cement Pastes, Lex Reiter, <i>Timothy Wangler, Nicolas Roussel, Robert Flatt</i></p> <p>#167 - Influence of Aggregate Shape on Mixing and Rheological Behaviour of Low-Cement Self-Compacting Concrete, Markus Samuel Rebmann, <i>Fabio Alonso Cardoso, Gustav Hawlitschek, Rafael Giuliano Pileggi</i></p> <p>#140 - Influence of Mix Design Parameters on Dynamic Segregation of Self-Consolidating Concrete, Aida Margarita Ley Hernández, <i>Dimitri Feys</i></p> <p>#96 – Computational Segregation Analysis during Casting of SCC, Jon E. Wallevik, <i>Wassim Mansour, Olafur H. Wallevik</i></p> <p>#48 - Multivariate Analysis of the SCC Fresh State Parameters of Self-Consolidating Concrete, Emilio Garcia-Taengua, <i>Jose Rocio Marti-Vargas</i></p> | <p>Session C-2: Mechanical and Physical Properties 1 Potomac V/VI Chair: Peiyu Yan Co-Chair: John J. Myers</p> <p>#25 - Prediction of Mechanical Properties of Self-Consolidating Concrete for Cast-in-Place Bridge Construction, <i>Micheal Asaad</i>, George Morcoux, <i>Xuhao Wang, Peter Taylor, Kejin Wang</i> (Invited)</p> <p>#120 - Self-Roughening Concrete with Enhanced Shear Friction Capacity for Cold Joint Applications, Giovanni Loreto, <i>Russell T. Gentry, Kimberly E. Kurtis, Lawrence Kahn</i></p> <p>#10 - Fire Spalling of Self-Compacting Concrete Mixtures with Different Limestone Powder Contents, <i>Steve Werner</i>, Wolfram Schmidt, <i>Stephan Pirskawetz, Andreas Rogge</i> (Invited)</p> <p>#106 - Workability and Mechanical Properties of Expansive Self-Consolidating Concrete Reinforced with Hybrid Fibers, Qi Cao, <i>Yinliang Cheng</i></p> <p>#135 - Shrinkage of Hybrid Fiber Reinforced Self-Consolidating Concrete with Recycled Aggregate, Wu-Jian Long, <i>Jin-Guang Shi, Wei-Lun Wang, Xiao-Liang Fang</i></p> |
| 15:10 – 15:40 | Break in Exhibit Area REGENCY BALLROOM FOYER | | |
| 15:40 – 17:20 | <p>Session A-3: Fibers Potomac I/II Chair: Liberato Ferrara Co-Chair: Wu-Jian Long</p> <p>#47 - Effect of Polypropylene Macrofibers on the Flexural Response of SCFRC, Emilio Garcia-Taengua, <i>Su Taylor, Mohamed Sonebi, Peter Deegan, Liberato Ferrara, Andrea Patarini</i> (Invited)</p> | <p>Session B-3: Materials Potomac III/IV Chair: Wassim Mansour Co-Chair: Raissa Ferron</p> <p>#68 - Developing Self-Compacting Concrete Using Local Materials of Libya, Hakim Abdelgader, <i>Ali El-baden</i></p> <p>#51 - Self-Compacted Clay Concrete: A Concrete with CSA and Higher Clay</p> | <p>Session C-3: Mechanical and Physical Properties 2 Potomac V/VI Chair: Celik Ozyildirim Co-Chair: Shiho Kawashima</p> <p>#15 - Study on the Creep Behavior of High Strength Self-Consolidating Concrete, Peiyu Yan, <i>Zhikai Zhou, Qiang Wang</i> (Invited)</p> |

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| | <p>#208 - Predicting Fibre Orientation and Its Effect on Mechanical Properties of Ultra-High Performance Steel Fibre Reinforced Self-Compacting Concrete, Wilson R. Leal da Silva, <i>Oldrich Svec, Claus Pade, Lars Nyholm Thrane</i> (Invited)</p> <p>#173 - Effect of Types of Fibers and Expansive Agents on Flexural Performance of Self-Consolidating Concrete, Ahmed Abdelrazik, <i>Kamal H. Khayat, Soo-Duck Hwang</i></p> <p>#180 - Crack Resistance of Polypropylene Fiber Reinforced Self-Consolidating Concrete under Restrained Shrinkage Condition, Hani Nassif, <i>Zeeshan Ghanchi, Chaekuk Na</i></p> <p>#63 - Self-Consolidating Concrete Cracking Sensitivity: Cracking Index and Database, Hamza Samouh, <i>Emmanuel Rozière, Ahmed Loukili</i></p> | <p>Content, Claudiane Ouellet-Plamondon, <i>Guillaume Habert</i></p> <p>#32 - Influences of Nano Effects on the Flow Phenomena of Self-Compacting Concrete, Wolfram Schmidt, <i>Luciana Weba, Dorothee Silbernagl, Berta Mota, Patrick Hoehne, Heinz Sturm, Jutta Pauli, Ute Resch-Genger, Gabriele Steinborn</i></p> <p>#108 - Optimum Replacement of OPC by Fly Ash and Limestone Powder and their Blends in Self-Consolidating Paste Systems prepared at Variable Mixing Water Temperature, Syed Ali Rizwan, <i>Abdul Wahab Safdar, Imran Ahmad, Thomas Albert Bier</i></p> <p>#237 - Fly Ash-Nano SiO₂ Blends for Effective Application in Self-Consolidating Concrete, Rani Pradoto, <i>Mohamad Reza Moini, Ismael Flores-Vivian, Marina Kozhukova, Konstantin Sobolev</i></p> | <p>#186 - Shrinkage Mitigating Strategies for Low Shrinkage Self-Consolidating Concrete, Iman Mehdipour, <i>Kamal H. Khayat</i></p> <p>#38 - Influence of Moist Curing Age and Sample Size on Strength and Drying Shrinkage of Internally Cured Self-Consolidating Concrete, Yudong Dang, <i>Tao Zhang, Zhenghong Yang, Zhengwu Jiang, Hui Zhang, Qingchun Guo, Xincheng Li</i></p> <p>#33 - Influences of Rheological Properties on Plastic Shrinkage Cracking in Mortars, Keisuke Takahashi, <i>Suguru Goto</i></p> <p>#97 - Performance Comparison of SCC Made with Lightweight Aggregates, Shrinkage-Reducing Admixture, and Expansive Agent, Soo Duck Hwang, <i>Etienne Lepesqueux, Kamal H. Khayat</i></p> |
| <p>17:20 – 19:30</p> | <p>Poster Session and Reception in Exhibit Area REGENCY BALLROOM FOYER</p> <p>#8 - Effect of Sand-Powder Ratio on Properties of Self Compacting Concrete, Murtada Khalid A. Osman, <i>Osama Mohammed Ahmed Daoud</i></p> <p>#20 - 3D Printing Methods and Structural Build-up of Cement-Based Materials, Arnaud Perrot, <i>Damien Rangeard, Alexandre Pierre</i></p> <p>#30 - Modelling the Early Age Drying Shrinkage and Cracking Risk of SCC, Gonzalo Barluenga, <i>Javier Puentes, Irene Palomar</i></p> <p>#34 - Effects of Mix Design Parameters on Consolidation Behavior of Fresh Cement-Based Materials, Arnaud Perrot, <i>Damien Rangeard</i></p> <p>#40 - Non-linear Modeling of Yield Stress Increase due to SCC Structural Build-Up at Rest, Thibaut Lecompte, <i>Arnaud Perrot</i></p> <p>#72 - Evaluation of Quarry Powders as Viscosity-Modifying Material in Cement Mixtures, Rudiele Aparecida Schankoski, <i>Ronaldo Pilar, Luiz Roberto Prudêncio Jr., Raissa Douglas Ferron</i></p> <p>#77 - Quality Control of Controlled Low Strength Materials with the Dynamic Cone Penetrometer, Samuel Pothier, <i>Michel Vaillancourt, Claudiane Ouellet-Plamondon</i></p> <p>#95 - Influence of Hydrodynamic Pressure in a 4-Blades Vane Rheometer, Jon E. Wallevik</p> <p>#105 - Effect of Cement Type and Solid Concentration on Kinetics of Structural Build-up of Cement Suspensions, Ahmed M. Mostafa, <i>Ammar Yahia</i></p> <p>#109 - Self-Leveling Paste Systems (SLPs) using Blends of CAC-OPC at Variable Mixing Water Temperatures, Syed Ali Rizwan, <i>Sami Ullah Khan Bangash, Bharat Kumar, Thomas Albert Bier</i></p> <p>#116 - Modeling Cement Hydration and Microstructure Development Incorporating Fly Ash, Slag and Silica Fume Based on Cellular Automaton Rules, Cheng Liu, <i>Yunsheng Zhang, Deqing Xie, Lin Yang, Ran Huang</i></p> <p>#155 - Mix Design Procedure for Low-Powder Self-Consolidating Concrete: Eco-SCC, Behrouz Esmaeilkhanian, <i>Kamal H. Khayat, Olafur H. Wallevik</i></p> <p>#158 - Effect of Particle-Size Distribution and Lattice Effect on Stability of Self-Consolidating Concrete, Behrouz Esmaeilkhanian, <i>Paco Diederich, Kamal H. Khayat, Ammar Yahia, Olafur H. Wallevik</i></p> <p>#164 - A Diphasic Approach to Evaluate the Rheological Properties of Self-consolidating Concrete, Daddy Kabagire, <i>Paco Diederich, Ammar Yahia, Mohamed Chekired</i></p> <p>#198 - Effect of Crumb Rubber Content on Structural Behaviour of Self-consolidating Concrete, Mohamed Ismail, <i>Assem Hassan</i></p> <p>#199 - Experimental Investigation on Bond Strength of Self-Consolidating Rubberized Concrete, Mohamed Ismail, <i>Assem Hassan</i></p> <p>#219 - Adaptation of SIMPLEX Method for Studying Rheology of SCC Cement Pastes using Mixture Experimental Design, Givanildo Azeredo, <i>Guilherme Leite, Nóbrega De Azeredo</i></p> <p>#231 - Influence of Applied Maximum Shear Rate on Rheological Properties of Cement-Paste with SCC Consistency, Azadehalsadat Asghari, <i>Dimitri Feys</i></p> | | |

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Tuesday, May 17, 2016

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| 7:00 - 17:00 | Registration Desk Open REGENCY BALLROOM FOYER | | |
| 7:00 – 8:00 | Continental Breakfast in Exhibit Area REGENCY BALLROOM FOYER | | |
| 8:00 – 9:30 | Plenary Session 2 REGENCY BALLROOM Chair: Surendra P. Shah Co-Chair: Tien Peng Henry Green - Building Resilient Communities Nicolas Roussel - New Trends in Rheology Driven by Sustainable SCC Surendra P. Shah - Constructability, Sustainability, and Nanotechnology | | |
| 9:30 – 10:00 | Break in Exhibit Area REGENCY BALLROOM FOYER | | |
| 10:00 – 12:00 | Session A-4: Test Methods Potomac I/II Chair: Mohammed Sonebi Co-Chair: Zhengwu Jiang #87 - Fresh Stability and In-Situ Hardened Uniformity of SCC, Samuel D. Keske, Anton K. Schindler, Robert W. Barnes #23 - Practical Methods to Assess Segregation Risk of SCC on Site, Tor Arne Martius-Hammer, Sverre Smeplass, Gunrid Kjellmark #76 - A New Homogeneity Assessment Concept Applied to Evaluate Self-Consolidation and Segregation Stability of Self - Compacting Concrete, Florian Mueller, Olafur H. Wallevik, Kamal H. Khayat #189 - The Plate Test Carried Out on Fresh Self- Compacting Concrete, Sofiane Amziane, Arnaud Perrot #121 - Heat Flux Measurements for the Characterization of Maturity and Stability of Mortars and Self-Consolidating Concrete, Hassina Kada, Kamal H. Khayat, Chafika Djelal, Yannick Vanhove #203 - Investigation on the Mechanisms Governing the Robustness of Self-Compacting Concrete at Paste Level, Farid Van Der Vurst, Karel Lesage, Steffen Grünewald, Lucie Vandewalle, John Vantomme, Geert De Schutter | Session B-4: Rheology and Workability 3 Potomac III/IV Chair: Nicolas Roussel Co-Chair: Dimitri Feys #94 - Analysis of Shear Rate inside a Concrete Truck Mixer, Jon E. Wallevik, Olafur H. Wallevik (Invited) #162 - Homogeneous Analysis of Self-Consolidating Concrete (SCC) Casting in Reinforced Beam Using Computational Fluid Dynamics (CFD), Masoud Hosseinpoor, Kamal H. Khayat, Ammar Yahia, Habib A. Mesbah #2 - Modeling of Suspension Flow in Pipes and Rheometers, Nicos S. Martys, Chiara F. Ferraris, William L. George (Invited) #161 - Numerical Simulation of Self-Consolidating Concrete Flow as a Heterogeneous Material in L-Box Set-up, Masoud Hosseinpoor, Kamal H. Khayat, Ammar Yahia #64 - Shape Effect of Crushed Sand Filler on Rheology: A Preliminary Experimental and Numerical Study, Jon Spangenberg, Rolands Cepuritis, Emil Hovad, George W. Scherer, Stefan Jacobsen #39 - Hardening Self-Compacting Mortar Exposed to Gamma Radiation, Bart Craeye, Geert De Schutter, Isabelle Gérardy | Session C-4: Structural Performance Potomac V/VI Chair: Hani Nassif Co-Chair: Steffen Grünewald #179 - Monitoring the Initial Structural Performance of a Prestressed Self-Consolidating Concrete Bridge, Eli S. Hernandez, John J. Myers (Invited) #168 - Concrete to Concrete Bond of an Interface between Self-Consolidating Concrete and Vibrated Concrete, Florian Junker, Klaus Holschemacher #24 - Constructability and Structural Performance of Self-Consolidating Concrete in Cast-in-Place Bridge Construction, Micheal Asaad, George Morcouc #132 - Blast Load Performance of Reinforced Concrete Beams and Columns constructed with SCC and Fibers, Steve Castonguay, Corey Guertin-Normyle, Hassan Aoude #200 - Behaviour of Self-Consolidating Rubberized Concrete under Drop-Weight Impacts, Mohamed K. Ismail, Mayra T. De Grazia, Assem A.A. Hassan #216 - Effect of Mixture Parameters on the Shear Behavior of Cement Paste, Qianqian Zhang, Jianzhong Liu, Jiaping Liu, Wenqiang Zuo, Fangyu Han |

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| <p>12:00 – 13:30</p> | <p>Lunch REGENCY BALLROOM</p> <p>Panel Discussion: Build with Strength for a Sustainable Future.</p> <p>This panel discussion will feature renowned experts in the field of resilience and green building to discuss <i>Build with Strength for A Sustainable Future: How Concrete’s Strength Equals Sustainable Projects</i>.</p> | | |
| <p>13:30 – 15:10</p> | <p>Session A-5: Honoring Prof. Surendra P. Shah 1 Potomac I/II Chair: Kamal H. Khayat Co-Chair: Keijin Wang</p> <p>#84 - Stability and Retention of Entrained Air in Conventional and Self-Consolidating Concrete, David A. Lange, Daniel Castaneda, Jeremy A. Koch, Randy E. Ewoldt, Kyle A. Riding</p> <p>#29, Flowable Fibre-Reinforced Concrete: Progress in Understanding and Development of Design Standards, Steffen Grünewald, Liberato Ferrara, Frank Dehn (Invited)</p> <p>#213 - Creep Modeling of Self Consolidating Concrete with High Volumes of Supplementary Cementitious Materials, Katie Kuder, Dawn Lehman, Chien Jie, Roeder Charles, Laura Lowes</p> <p>#1 - Calibration of Rheometers for Cementitious Materials, Chiara F. Ferraris, Nicos S. Martys, Alex Olivas, William L. George, Edward Garboczi</p> <p>#55 - Concrete Flow on a Steel-Plate Concrete Member having Congested Studs, Jae Hong Kim, Tae Yong Shin, Yoon Yi Hwang, Dong Kyu Shin</p> | <p>Session B-5: Production and Placement Potomac III/IV Chair: Lloyd Keller Co-Chair: Johann Plank</p> <p>#107 - A New Method of Controlling Water in Self-Compacting Concrete Production, Hai-Thong Ngo, Abdelhak Kaci, El-Hadj Kadri, Tien-Tung Ngo, Alain Trudel, Sylvie Lecrux (Invited)</p> <p>#11 - Cusum Charts for the Control of the Slump Flow of Self-Compacting Concrete in a Steady Production Process, Wolfram Schmidt, Hans-Carsten Kühne</p> <p>#111 - New Demoulding Process for Self-Consolidating Concrete without Release Agents, Yannick Vanhove, Chafika Djelal, Laurent Libessart (Invited)</p> <p>#102 - Influence of SCC and the Release Agents on Friction Concrete/Formwork - Impact on the Aesthetics of Concrete Facing, Laurent Libessart, Chafika Djelal, Yannick Vanhove, Pascale de Caro, Isabelle Dubois</p> <p>#141 - Effects of Dynamic Segregation of Self-Consolidating Concrete on Uniformity and Bond Strength of Pre-Stressed Beams, Aida Margarita Ley Hernández, Dimitri Feys, Julie Ann Hartell</p> | <p>Session C-5: Case Studies 2 Potomac V/VI Chair: William S. Phelan Co-Chair: Robert Flatt</p> <p>#44 - Successful High Strength Concrete for Tall Buildings in North America, William S. Phelan (Invited)</p> <p>#115 - Sealed-Space-Filling SCC: A Special Application of SCC in High Speed Rail of China, Guangcheng Long, Qiang Yuan, Kunlin Ma, Zhanqun Liu, Youjun Xie, Dehua Deng</p> <p>#18 - A Framework to Examine Experimental Material Properties of Self-Consolidating Concrete for Prestressed Bridge Girder Fabrication, Eduardo Torres, Junwon Seo, Rita Lederle</p> <p>#159 - Relationship between Mix Designs and Bleeding for Semi Flowable SCC Applied To Diaphragm Walls, Mohammed Amin Azzi, Chafika Djelal, Yannick Vanhove, H. Kada, Olivier Madec</p> <p>#150 - Development of Self Compacting Concrete for a Tremie Application, Egemen Kesler, Gülden Keskin, Arca Berker, Tahir Turgut, Yilmaz Akkaya</p> |
| <p>15:10 – 15:40</p> | <p>Break in Exhibit Area REGENCY BALLROOM FOYER</p> | | |

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| 15:40 – 17:20 | <p>Session A-6: Honoring Prof. Surendra P. Shah 2 Potomac I/II Chair: Olafur H. Wallevik Co-Chair: David Lange</p> <p>#211 –Performance of Self-Consolidating Concrete Developed for Iconic and High-Rise Structures in North America, Van Bui</p> <p>#74 –Evaluation of Rheological Behavior of SCHPC Containing SRA and Expansion Admixture, Ronaldo Pilar, Rudiele Schankoski, Wellington Repette, Raissa Ferron</p> <p>#110 - In-Transit Monitoring of SCC, Nathan Tregger, Stephen Klaus</p> <p>#172 - Investigating Shear-Induced Particle Migration in Fresh Cement Mortars, Ye Qian, Shiho Kawashima</p> <p>#125 - Comparison of Thixotropic Behavior Between SCC and Convention Concrete Using the Concept of Bond Energy, Kejin Wang, Gilson R. Lomboy</p> | <p>Session B-6: Pumping Potomac III/IV Chair: Geert De Schutter Co-Chair: Florian Mueller</p> <p>#14 - Rheological and Tribological Characterization in the Context of Estimating its Pumpability, Egor Secrieru, Viktor Mechtcherine, Simone Palzer</p> <p>#143 - Maintaining the Air-Void System during Pumping of Self-Consolidating Concrete: A Challenging Fluid Mechanics Problem! Dimitri Feys, Philip Zacarias, Stacia Van Zetten, Lloyd Keller, Bryan Schulz, Kyle Riding (Invited)</p> <p>#31 - Assessment of Pumpability Quality Control and Performance Parameters of SCC-Type Mixtures, Olga Rio, Khanh Nguyen, Gonzalo Barluenga, Irene Palomar, Mercedes Giménez, Alberto Sepulcre, Ángel Rodriguez</p> <p>#175 - Study on Pumping Pressure Loss of Manufactured Sand Self-Compacting Concrete, Zhengwu Jiang, Qiang Ren, Qing Chen, Jun Yin, Haiyan Tang</p> <p>#234 – Flowability and Stability Performance of Self-Consolidating Concrete in Full-Scale Beam, Habib Abdelhak Mesbah, Abdelkrim Laraba, Ammar Yahia</p> | <p>Session C-6: Durability Potomac V/VI Chair: Jason Weiss Co-Chair: Martin Vachon</p> <p>#83 - Freeze-Thaw Resistance of Vibrated SCC and Near-SCC, Ahmad A. Ghabban, Mohammed Albahtiti, Kyle Riding, David Lange</p> <p>#147 - Comparison of Durability Performance of Conventional and Air-Entrained Self-Compacting Concrete Modified by Metakaolin and Silica Fume, Abdulkader Ihssan El Mir, Salem Georges Nehme</p> <p>#149 - Effect of Alkali Sulfate on Workability, Strength and Volume Stability Related to SCC, Ying Ma, Jueshi Qian</p> <p>#17 - Investigating Corrosion Problem in Reinforced SCC Members, Ahmed Abdel-Mohti, Hui Shen, Chelsea Cousins, Edward Duliba</p> <p>#91 - Effect of Fly Ash on Resistance to Chloride Ion Penetration of SCC under Abrasion, Surong Luo, Wenda Wu, Yong Li, Jianlan Zheng</p> |
| 17:20 – 18:00 | Break | | |
| 18:00 – 19:00 | Reception in Exhibit Area REGENCY BALLROOM FOYER | | |
| 19:00 – 21:00 | Banquet REGENCY BALLROOM | | |

Wednesday, May 18, 2016

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| 7:00 – 12:30 | Registration Desk Open REGENCY BALLROOM FOYER | | |
| 7:00 – 8:00 | Continental Breakfast in Exhibit Area REGENCY BALLROOM FOYER | | |
| 8:00 – 10:00 | <p>Session A-7: Chemical Admixtures Potomac I/II Chair: Nathan Tregger Co-Chair: Wolfram Schmidt</p> <p>#183 - Improvement of SCC Flow Properties through Addition of Non-Adsorbing Small Molecule Co-Dispersants, Manuel Ilg, Johann Plank (Invited)</p> | <p>Session B-7: Formwork Potomac III/IV Chair: Peter Billberg Co-Chair: Yannick Vanhove</p> <p>#224 - SCC Under Pressure - Field Validation of Models for Predicting Lateral Form Pressure in Toronto, Lloyd Keller, John Gardner, Stacia Van Zetten, Phil Zacarias, Kamal H. Khayat, David</p> | <p>Session C-7: Sustainability Potomac V/VI Chair: Jiong Hu Co-Chair: Caroline Talbot</p> <p>#28 - Design Considerations and Sustainability of Self-compacting Concrete, Steffen Grunewald, Geert De Schutter</p> |

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Program

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| | <p>#207 - Bleeding in Cement Paste: Induction, Acceleration and Consolidation Phases, Nadia Massoussi, Nicolas Roussel</p> <p>#184 - Phosphated Comb Polymers - A New Generation of Highly Effective Superplasticizers, Johannes Stecher, Johann Plank</p> <p>#223 - Effect of Super-Absorbent Polymer on Shrinkage and Permeability of Self-Compacting Concrete (SCC), Caijun Shi, Jianhui Liu, Kuixi Lv, Xianwei Ma, Jian Zhang, Zemei Wu</p> <p>#53 - Adsorption Characteristics of PCEs and its Effect on Rheological Properties of Cement Paste, Jin Young Yoon, Jae Hong Kim</p> <p>#26 - New Approach to Reduce Early-Age Shrinkage of Cement-Based Materials, Keisuke Takahashi, Thomas Bier, Takayuki Aoki</p> | <p><i>Lange</i> (Invited)</p> <p>#19 - Prediction of Lateral Form Pressure Exerted by Cement-Based Materials at Low Casting Rates, Arnaud Perrot, Alexandre Pierre, Vincent Picandet</p> <p>#185 - Models to Predict Form Pressure Exerted by SCC - Results of Six Field Campaigns, Ahmed Omran, Kamal H. Khayat</p> <p>#112 – Analysis of Friction and Lubrication Conditions of Concrete/Formwork Interfaces, Chafika Djelal, Yannick Vanhove, Laurent Libessart</p> <p>#194 - Tightness Requirements for SCC Formwork, Thomas Cools, Ann Van Gysel, Petra Van Itterbeeck</p> <p>#233 - Feedback Control of Smart Dynamic Casting through Formwork Friction Measurements, Marc Schultheiss, Timothy Wangler, Lex Reiter, Nicolas Roussel, and Robert J. Flatt</p> | <p>#209 - Development of Eco-Efficient Self Consolidating Concrete (Eco-SCC) with Recycled Concrete Aggregate, Jiong Hu, Brian Ledsinger, Yoo-Jae Kim</p> <p>#142 - Tailor-Made SCC Incorporating Spent Equilibrium Catalyst from Oil Refinery, Sandra Nunes, Carla Costa</p> <p>#56 - Rheology - One Parameter in a Performance Based Design Framework for the Selection of Concretes with Environmental Friendly Binder Systems, Lars Nyholm Thrane, Thomas Svensson, Oldrich Svec, Claus Pade</p> <p>#221 - Time-Dependent Fresh Behaviour of Self-Compacting Concrete with Recycled Concrete Coarse Aggregate, Iris González-Taboada, Belén González-Fontebao, Fernando Martínez-Abella, Nicolas Roussel, Sindy Seara-Paz</p> <p>#49 - Self-Consolidating Concrete Prepared with Recycled Asphalt Pavement and High Volume of Supplementary Cementitious Materials, Yasser Khodair, Mahmoud Raza</p> |
| <p>8:00 – 10:00</p> | <p>Break in Exhibit Area REGENCY BALLROOM FOYER</p> | | |
| <p>10:30 – 12:30</p> | <p>Plenary Session 3 REGENCY BALLROOM</p> <p>Chair: Lionel Lemay Co-Chair: Olafur H. Wallevik Geert De Schutter - Vision for Future Advancement of SCC Industry Cajun Shi - Innovative Uses of CO2 for Sustainable Concretes Kamal H. Khayat - Fiber-Reinforced SCC in Infrastructure Rehabilitation Robert Flatt - Digital Fabrication and Concrete: Opportunities and Challenges Closing Remarks</p> | | |